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DATE MAILED: 04/24/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/24/2008

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213

EXAMINER					
ELALLAM, AHMED					
ART UNIT	PAPER NUMBER				
2616					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/078,003	02/20/2002	Nahoko Takano	Q68521	4722

TITLE OF INVENTION: CELLULAR SYSTEM AND BASE STATION SPECIFICATION METHOD IN CDMA MODE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/24/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1:313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance of nerwise in Block 1, by (orders and notification (a) specifying a new of	of n	naintenance fees w pondence address;	ill be and/o	mailed to the current r (b) indicating a sepa	com	espondence address as "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of th Fee(s) Transmittal. This certificate cannot be used for any other accompanyin, papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.					
7590 04/24/2008 SUGHRUE, MION, ZINN, MACPEAK & SEA: 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			S, PLLC		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPIO (571) 272-2885, on the date indicated below.				
									(Depositor's name)
				⊢					(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	OR ATTORNEY DOCKET N		RNEY DOCKET NO.	CC	ONFIRMATION NO.
10/078,003 TITLE OF INVENTION	02/20/2002 • CELLILAR SYSTEM	I AND BASE STATION	Nahoko Takano SPECIFICATION M		OD IN CDMA MO	DE	Q68521		4722
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nonprovisional	NO	\$1440	\$300		\$0		\$1740		07/24/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	S					
ELALLAN		2616	370-335000						
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address form PTOSBI 223 antached. "Fee Address" indication or "Fee Address" Indication form PTOSBI 47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of or agents OR, alte (2) the name of a registered attorney 2 registered patent	initing on the patent front page, list ames of up to 1 registered patent attorneys OR, alternatively, ames of a single firm (having as a member a comment of a single firm (having as a member a comment of a single firm (having as a member a and of a single firm (having as a member a comment of a single firm (having as a member a and a single firm (having as a member a) and a single firm (having as a					
3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSIGNAME Please check the appropri	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NC	data will appear on to T a substitute for filin (B) RESIDENCE: (6	the page and CITY	atent. If an assign assignment. and STATE OR C	OUNT	TRY)		
4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p		b. Payment of Fee(s): A check is enclor Payment by cred The Director is hoverpayment, to	sed. it care	d. Form PTO-2038	is atta	iched. required fee(s), any de	ficie	
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NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademari	ed from anyone other t k Office.	han th	he applicant; a regi	stered.	attorney or agent; or th	ne ass	ignee or other party in
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7590 04/24/2008			EXAMINER			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W.		ELALLAN	I, AHMED			
		ART UNIT PAPER NUMBER				
Washington, DC 20037-3213			2616			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1009 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1009 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/078,003	TAKANO ET AL.				
Examiner	Art Unit				
AHMED ELALLAM	2616				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to Amendment after final filed on 4/11/2008.
- The allowed claim(s) is/are 1-9, 12-22, and 24, respectively renumbered 1, 6, 2-5, 7-21.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7.

 Examiner's Amendment/Comment
- 8. \boxtimes Examiner's Statement of Reasons for Allowance
- 9. Other _____.

/Chi H. Pham/ SPE, AU 2616 4/21/08

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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to teach or suggest the following:

A cellular system in a code division multiple access mode comprising (inter alias):

a base station control unit having means for notifying each base station of a plurality of base stations, in advance, of a unique information and a sequence information; and each of the base stations has means for judging whether or not each of the base stations itself is specified as the transmitting base station by creating in advance code word candidates configured to be transmitted by the mobile station based on the unique information and the sequence information and checking the code word received from a mobile station against the code word candidates, as indicated in independent claims 1, 2, 13 and 14.

A cellular system in a code division multiple access mode comprising (inter alias):

a base station control unit for assigning code words and base station identifiers that are unique information of the base stations there under and determining a predetermined base station number threshold, wherein each of the base stations is operable to check the code word transmitted from the mobile station having the radio link set up against a table created based on correspondence between the assigned

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code words and the assigned base station identifiers and the base station number threshold and determine a transmitting base station, wherein the base station control unit has means for, in the case where the mobile station sets up links with the base stations equal to or exceeding the base station number threshold, duplicatively assigning a base station identifier to at least two of the base stations and notifying the base stations, in advance, of said duplicatively assigned base station identifier, the assigned code words and the base station number threshold; and each of said base stations has means for, in the case where the mobile station sets up links with the base stations equal to or exceeding the base station number threshold, judging whether or not each of the base stations itself is specified as the transmitting base station by creating in advance code word candidates configured to be transmitted by the mobile station based on the duplicatively assigned base station identifier and said base station number threshold and checking the code word received from the mobile station against the code word candidates, as indicated in independent claims 7 and 19.

A cellular system using a code division multiple access mode and comprising (inter alias):

a base station control unit having first means for notifying each base station of a maximum base station number that is a maximum number of the base stations which have the radio links set up with said mobile station; and a mobile station determining one transmitting base station or a plurality of transmitting base stations out of the base stations according to measuring results thereof, and transmitting to each base station a

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code word indicating a combination of the base station identifiers of the transmitting base stations, wherein each of the base stations has means for judging whether or not each of the base stations is specified as the transmitting base station by determining judgment candidates that are the code words configured to be transmitted by the mobile station based on a predetermined order and the maximum base station number and checking the code word received from the mobile station against the judgment candidates, as indicated in independent claims 8, 9 and 12.

A base station specification method in a cellular system using a code division multiple access mode and including a mobile station, base stations having radio links set up with the mobile station and a base station control unit assigning base station identifiers to the base stations in predetermined order, the method comprising (inter alias):

notifying each base station of the maximum base station number that is the maximum number of the base stations which have the radio links set up with the mobile station, measuring reception quality of pilot signals transmitted by the base stations, determining one transmitting base station or a plurality of transmitting base stations out of the base stations according to measuring results thereof, and transmitting to each base station a code word indicating a combination of the base station identifiers of the transmitting base stations; and judging whether or not the base station is specified as the transmitting base station by determining judgment candidates that are the code words configured to be transmitted by the mobile station based on the order and the

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maximum base station number and checking the code word received from the mobile station against the judgment candidates, as indicated in independent claims 20-22.

A base station specification method in a cellular system using a code division multiple access mode and including a mobile station, base stations having radio links set up with the mobile station and a base station control unit assigning base station identifiers to the base stations having the radio links set up, the method comprising:

duplicatively assigning a base station identifier that is already assigned, transmitting to each base station of the base stations a code word indicating a combination of the base station identifiers of transmitting base stations based on measurement of signal strength; and judging whether or not each of the base stations is specified as the transmitting base station by checking the code word received from the mobile station against code words indicating combinations of the base station identifiers of the base stations, as indicated in independent claim 24.

Conclusion

Any comments considered necessary by applicant must be submitted no later
than the payment of the issue fee and, to avoid processing delays, should preferably
accompany the issue fee. Such submissions should be clearly labeled "Comments on
Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to AHMED ELALLAM whose telephone number is (571)272-3097. The examiner can normally be reached on 7-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/AHMED ELALLAM/ Examiner, Art Unit 2616 4/18/08 /Chi H Pham/ Supervisory Patent Examiner, Art Unit 2616 4/21/08